

COVERAGE NAME: FUNC

COVERAGE AREA: Statewide, District, County

COVERAGE DESCRIPTION:

The FUNC coverage is a line coverage representing the California Department of Transportation (Caltrans) State Highway routes, highway ramps, and Functionally Classified Roads. Dynamic Segmentation is not available in the Statewide and District coverages.

USER NOTES:

In order to run dynamic segmentation in the FUNC coverage, two info files are needed: RATRTE and SEC RTE. The Caltrans postmile system is the linkage between the FUNC coverage and other Caltrans databases. The SEG item is the linkage between the FUNC coverage and the HPMS database.

Sign Routes: In order to do analysis by highway signed routes, it is necessary to clarify the coincident route coding. When two Interstate, state or business route numbers occupy the same roadway, the coincident route number is that route which is not postmiled and is coded in item COINRTE (i.e.: State route 70 is signed on state route 99 in Sacramento. State route 70 is coded in COINRTE.) When three state route numbers or three interstate route numbers occupy the same roadway, the second coincident route number is coded in item COINRTE2 (i.e. Route 59 and route 140 are on route 99 in Merced. Route 140 is coded in COINRTE and Route 59 is coded in COINRTE2.)

The definitions in the HPMS database are not identical for the TRKRT and STRAHNET items.

VITAL STATISTICS:

Datum:	NAD 83
Projection:	Albers
Units:	Meters
1st Std. Parallel:	34 degrees N
2nd Std. Parallel:	40.5 degrees N
Longitude of Origin:	-120 degrees W
Latitude of Origin:	0 degrees N
False Easting:	0
False Northing:	-4,000,000
Source Media:	USGS DLG
Source Projection:	Universal Transverse Mercator Zone 10/11
Source Units:	Meters
Source Scale:	1:100,000
Capture Method:	Scanned
Conversion Software:	ARC/INFO rev. 5.0.1
Data Structure:	Vector
ARC/INFO Coverage Type:	Arc
ARC/INFO Precision:	Double
ARC/INFO Tolerances:	10 meters
Frequency of Updates:	Yearly, when new postmiles become available
Data Updated:	October 1997 (1996 Postmiles), June 1998 (Scenic attribute), and Jan. 2000
(Trkrt)	
Update Media:	Caltrans County Map Series
Update Method:	Digitizing

Update Software: ARC/INFO rev. 7.2.1
 DATA DICTIONARY:

File name: FUNC.AAT
 Record length: 174

NOTE: Items common to all line coverages: FNODE#, TNODE#, LPOLY#, RPOLY#, LENGTH,
 <coverage>#, and <coverage>-ID are not shown.

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC
33	RTE	3	3	I	-
36	SUBRTE	3	3	I	-
39	ROUTE2	2	5	B	-
41	STATUS	2	2	B	-
43	UPDINFO	4	7	F	2
47	RAMP	2	2	B	-
49	CO	3	3	C	-
52	DIST	2	2	C	-
54	SEG1#	4	4	C	-
58	SEG2#	6	6	C	-
64	HGROUP	2	2	C	-
66	RUCODE	1	1	C	-
67	URBCODE	3	3	I	-
70	FUNCCL	2	2	I	-
72	NEWFUNCCL	2	2	I	-
74	TRKRT	2	2	I	-
76	STRAHNET	1	1	I	-
77	HPCORD	1	1	I	-
78	NHS	1	1	I	-
79	LIFE	1	1	I	-
80	SCENIC	1	1	I	-
81	BIKE	1	1	I	-
82	ICB	3	3	I	-
85	IRRS	1	1	I	-
86	F&E	1	1	I	-
87	LLRSUB	2	2	I	-
89	SUBFLG	1	1	I	-
90	BPM	8	8	N	3
98	EPM	8	8	N	3
106	ITMS	1	1	I	-
107	ITMS-ID	28	28	C	-
135	GIS-ID	9	9	C	-
144	UPDATE-ID	9	9	C	-
153	RSYS	1	1	I	-
154	IRTE	3	3	I	-
157	USRTE	3	3	I	-
160	SRTE	3	3	I	-
163	LRTE	3	3	I	-
166	BRTE	3	3	I	-
169	COINRTE	3	3	I	-
172	COINRTE2	3	3	I	-

**** REDEFINED ITEMS ****

33	RDS	6	6	I	-
52	SEG	14	14	C	-
54	SEG#	10	10	C	-

ITEM DESCRIPTIONS:

RTE: Postmile Route number

DO NOT MODIFY. Corresponds to TASAS postmile route numbers. It may or may not correspond to the Legislative Route number or the signed route number seen on highway maps and road signs. This item is used in dynamic segmentation. Adopted and proposed highways and state highways that are within National Parks are coded under the item ROUTE2. To find Postmiled State Highways select RTE ≠ 0 and STATUS= 1.

SUBRTE: Subroute

DO NOT MODIFY. This item is used in dynamic segmentation.

ROUTE2:

This item is used to display state highways that are within a national park, adopted and proposed roads.

STATUS: Status of State Highways

- 0 - Not State Highway
- 1 - Constructed State Highway (paved or unpaved)
- 2 - Adopted; Not yet constructed. Alignment known.
- 3 - Proposed; Not yet constructed. Alignment unknown.
- 4 - Postmile Road; not State Highway (Ramps, Non ADD)
- 5 - Postmile Road; not State Highway (Per OHSE roads that are in the process of being relinquished.)
- 6- Unrelinquished Route or Supplemental Route (U & S routes)

UPDINFO: Date arc modified and by whom

- 0 - has not been updated; line is from USGS DLG
- Mmyy.01 - updated by Caltrans on mmyy
- Mmyy.02 - updated by Teale Data Center on mmyy

Note: The information in this item is not current.

RAMP: Flag for ramps

- 0 - not highway ramp
 - 1 - highway ramp
- NOTE: The geometry of most ramps has not been modified and reflects the original DLG linework.

CO: Caltrans county abbreviation

DIST: Caltrans District number

SEG1#: Part 1 of HPMS segment ID (ROUTE-ID)

ITEM DESCRIPTIONS (continued):

SEG2#: Part 2 of HPMS segment ID (SECTION-ID)

HGROUP: Part 3 of HPMS segment ID (HIGHWAY GROUP)

Note:

SEG1#, SEG2# and HGROUP are HPMS items. DO NOT MODIFY without consulting HPMS staff. SEG is a key used to relate FUNC.AAT to XXX_HPMS_DAT. Refer to HPMS documentation for format of XXX_HPMS_DAT. SEG is a redefined item comprised of DIST, SEG1#, SEG2# and HGROUP

RUCODE: Urban/Rural Designation Code

- 1 = Rural
- 2 = Small Urban
- 3 = Urbanized

URBCODE: Urbanized area codes, unique FIPS codes for each urbanized area

FUNCCL: Item used to describe functional classification system

- | | | |
|------------|---|-------|
| 1 = Rural | Principal Arterial-Interstate | (PAI) |
| 2 = Rural | Other Principal Arterial | (OPA) |
| 6 = Rural | Minor Arterial | (MA) |
| 7 = Rural | Major Collector | (MJC) |
| 8 = Rural | Minor Collector | (MNC) |
| 11 = Urban | Principal Arterial - Interstate | (PAI) |
| 12 = Urban | Principal Arterial/Other Fwys or Expwys | (OFE) |
| 14 = Urban | Other Principal Arterial | (OPA) |
| 16 = Urban | Minor Arterial | (MA) |
| 17 = Urban | Collector | (COL) |

NEWFUNCCL: Item used to identify proposed functional class changes that have not been verified by Office of Highway System Engineering. This item uses the same coding values as FUNCCL.

TRKRT: Item used to define National Truck Network

- 0 = Not part of the National Truck Network
- 1 = National Network for STAA Trucks
- 2 = Terminal Access Routes to the National Network
- 3 = Routes for Tractor-Semis with Kingpin to Rear Axle Length < 30 Ft.
- 4 = Routes for Tractor-Semis with Kingpin to Rear Axle Length 30 Ft.
- 5 = Routes for Tractor-Semis with Kingpin to Rear Axle Length 32 Ft.
- 6 = Routes for Tractor-Semis with Kingpin to Rear Axle Length 34 Ft.
- 7 = Routes for Tractor-Semis with Kingpin to Rear Axle Length 36 Ft.
- 8 = Routes for Tractor-Semis with Kingpin to Rear Axle Length 38 Ft.

- 9 = Routes for Tractor-Semis with 65-Foot Overall length and 40-Foot Kingpin to Rear Axle Length (CA LEGAL)
- 10 = Routes with Operational Restrictions

ITEM DESCRIPTIONS (continued):

STRAHNET: Item defining Strategic Highway Network (STRAHNET) or STRAHNET Connectors

- 0 = Not STRAHNET
- 1 = STRAHNET route
- 2 = STRAHNET connector route A
- 3 = STRAHNET connector route B

HPCORD: Item used to define Congressional High Priority Corridor

- 0 = Not on a Congressional High Priority Corridor
- 1 = Congressional High Priority Corridor

NHS: Item used to define road systems that are part of a National Highway System

- 0 = Not part of a National Highway System
- 1 = Eisenhower Interstate System
- 2 = Congressional High Priority Route
- 3 = STRAHNET Route
- 4 = STRAHNET Major Connector
- 5 = Other NHS Route
- 6 = Congressional High Priority Route and STRAHNET Major Connector
- 7 = NHS Connector (proposed NHS connectors)

LIFE: Item used to define LifeLine Routes on the State Highway System

- 0 = Not a Life Line Route
- 1 = Life Line Route

SCENIC: Item used to define a State Highway that is designated as a Scenic Highway

- 0 = Not a Scenic Highway
- 1 = Officially designated as a State Scenic Highway
- 2 = Eligible to become a State Scenic Highway
- 3 = Unconstructed State Highway eligible for Scenic designation
- 4 = Officially designated County Scenic Highway
- 5 = Connecting Federal Highway (Inside National Parks)
- 6 = Officially designated Historic Parkway

BIKE: Item used to define bike routes on a State Highway

- 0 = Not State Highway; bicycle access not determined or evaluated
- 1 = State Highway is accessible for bicycles
- 2 = State Highway is inaccessible for bicycles

ICB: A numeric code used to identify intercity bus routes and the carriers who use that route

(Please refer to “ICB CODES” attachment)

ITEM DESCRIPTIONS (continued):

IRRS: Item used to define the Interregional Road System

- 0 = Not an Interregional Road System
- 1 = Interregional Road System
- 2 = Interregional Road System, unconstructed routes
- 3 = Not an Interregional Road System, selected unconstructed routes

F&E: Item used to define the Freeway and Expressway System

- 0 = Not a Freeway and Expressway System
 - 1 = Freeway and Expressway System
 - 2 = Freeway and Expressway System, unconstructed routes
 - 3 = Not a Freeway and Expressway System, selected unconstructed routes
- (THIS ITEM WILL EXIST IN A FUTURE VERSION)

LLRSUB: HPMS field; LLR Subroute

DO NOT MODIFY.

SUBFLG: HPMS field; Flag

DO NOT MODIFY.

BPM: HPMS field; Beginning odometer value of related HPMS segment.

EPM: HPMS field; Ending odometer value of related HPMS segment.

ITMS: Item to identify an Intermodal Transportation Management System (ITMS) corridor / connector

(CURRENTLY THIS ITEM IS NOT CODED)

ITMS-ID: This ID is used to relate to the ITMS model.

(CURRENTLY THIS ITEM IS NOT CODED)

GIS-ID: An internal ID used by the Caltrans Service Center

DO NOT MODIFY

UPDATE-ID: This ID is used to identify arcs that are in the process of being updated.

RSYS: Item used to define the type of Route System

- 0 = Not a Route System
- 1 = Interstate Route System
- 2 = US Route System

3 = State Route System

IRTE: Signed Interstate route number

This item is used to display highways that are signed Interstate to the traveling public.
This item is also used to display the interstate symbol on maps.

ITEM DESCRIPTIONS (continued):

USRTE: Signed US routes number

This item is used to display highways that are signed US to the traveling public.
This item is also used to display the US symbol on maps.

SRTE: Signed State routes number

This item is used to display highways that are signed State to the traveling public.
This item is also used to display the state symbol on maps.

LRTE: Legislative route number

This item is used to display the State Highway Route as defined in the Caltrans Statutes sections 300 - 635. This item is also used to display the legislative symbol on maps.

BRTE: Business route number

This item is used to display routes that are signed Business to the traveling public.
This item is also used to display the business symbol on maps.

COINRTE: Coincident route number

This item is used to display the number of the coincident route when there are two state routes or two interstate or two business routes on the same roadway. This item is also used to display the appropriate symbol on maps.

COINRTE2: Second Coincident route number

This item is used to display the number of the second coincident route when there are three state routes or three interstate routes on the same roadway. This item is also used to display the appropriate symbol on maps.

This item is a combination of the DIST, SEG1#, SEG2# and HGROUP items in the <coverage> AAT file.

**** REDEFINED ITEMS ****

RDS: This item is a combination of the RTE and SUBRTE items in the <coverage>. AAT file. It is the linkage between the arcs and the RTE route system.

SEG: This item combines the DIST, SEG1#, SEG2# and HGROUP items in the <coverage> AAT file.
The SEG item is used as a relate item to the HPMS database category 7A
(Caltrans district, routes, postmile or section designation and highway group.)

SEG#: This item is a combination of the SEG1# and SEG2# items in the <coverage>.AAT file.

RELATIONAL DATA

Currently there are no data relationships established.

DATABASE RELATION:

Currently there are no database relationships established.

DATA QUALITY ASSESSMENT:

ICB CARRIER

0	None
101	Amtrak Bus Connectors
102	Amador Stage Lines
103	California Yosemite Tours
104	Desert Stage Lines
105	Green Tortoise
106	Green Belt Stages
107	Greyhound
108	Orange Belt Stages
109	Trailways
110	Via Adventures
111	Vista
201	Amtrak Bus ** Greyhound
202	Amtrak Bus ** Orange Belt
203	Amtrak Bus ** Vista
204	Desert Stage ** Trailways
205	Green Tortoise ** Greyhound
206	Greyhound ** Orange Belt
207	Greyhound ** Trailways
208	Trailways ** Vista
209	Greyhound ** Vista
210	Greyhound ** Desert Stage
301	Amtrak Bus ** Green Belt ** Greyhound
302	Amtrak Bus ** Green Tortoise ** Greyhound
303	Amtrak Bus ** Greyhound ** Orange Belt
304	Amtrak Bus ** Greyhound ** Trailways
305	Cal Yosemite ** Greyhound ** Via Adventures
306	Cal Yosemite ** Greyhound ** Trailways
307	Greyhound ** Trailways ** Vista
308	Greyhound ** Trailways ** Orange Belt
309	Amtrak Bus ** Greyhound ** Desert Stage
401	Amtrak Bus ** Greyhound ** Trailways ** Amador
402	Amtrak Bus ** Greyhound ** Cal Yosemite ** Via Adventures

403 Amtrak Bus ** Greyhound ** Trailways ** Orange Belt
404 Amtrak Bus ** Greyhound ** Trailways ** Cal Yosemite

501 Amtrak Bus ** Amador ** Green Tortoise ** Greyhound ** Trailways

601 Amtrak Bus ** Amador ** Green Belt ** Green Tortoise ** Greyhound ** Trailways